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# GERMAN COAL AND COKE PORTS TO DEMARK (1940-1944)

In June 19h0: The stepped-up supply of coal is the knottlest problem in the raw materials field. While the Dames were figuring on the import from Germany of 300,000 t ns of coal and 100,000 tons of coke per month, during the period 1 Apr - 11 may 1940 only 241,909 tons of coal and 122,632 tons of coke were imported. Thus, in the months of April and May together, only 364,541 tons + about 50,000 tons for the Damish State Callroads = 114,00 tons of fuel were delivered, instead of the 800,000 tons planned under the import program. The reasons for this delay in shipment are: (1) differences between the Damish shipping companies and the Cerman suppliers over unloading conditions, and (2) inefficient distribution.

It proved necessary to can private coal consumption in order to keep the main plants operating.

19 August 1940: Coal deliveries are 118,503 tons behind schedule and coke deliveries are 48,453 tons behind. The difficulties are to be found in the dispatching of Denish steamers in the German loading ports.

15 August 1940: During the period 1 April - 31 July 1940, a total of 714,497 tons of coal and 284,547 tons of coke were imported by Denmark.

The planned import of coal of the Danish State Railroads, about 500,000 tons per year, is not included in the above figures.

Besides the 500,000 tons for the Danish State Railroads, the annual Danish requirement of coal is about 2,500,000 tons and of coke, about 1,000,000 tons, or 833,000 tons of coal and 333,000 tons of coke per quarter (sic) /per h-month period/. Therefore, 833,000 - 71h,497 = 118,503 tons of coal and 333,000 - 284,547 = 16,453 tons of coke are behind in delivery.

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The delivery of large quantities of coal dust from Upper Silesia in July did not help much, as this can be used only by individual big plants with special furnaces.

The reason for much of this shortage is still to be found in the dispatching of the Denish Steamers in German ports. This is especially true for deliveries from the Whine-Westphalia mining district.

of coal were delivered, instead of the 250,000 tens which were supposed to be delivered. This contributed further to the critical position of the Danish acknow. During the six-month period April-September 1940, 284,000 tens too little coal and 33,455 tens too little coke were delivered to Danmark. On the other hand, too much coal dust was delivered -- this can be used only in power plants and individual plants.

The delivery problem is not the to inadequate shipping space -- Denmark can provide 75 per cent of the cottoms needed and Germany can provide the other 25 per cent. The problem is the quarrel between the Danish Freighting Committee and the German coal syndicates over the charter conditions.

16 November 1940: Deliveries came through better in October than in the previous months. Of the required 250,000 tens of coal, 231,200 tens were delivered, and the required tennage of coke, 63,333 tens, was exceeded by shipments totalling 90,500 tens.

15 December 1940: The supply of Denmark with coal is not going according to plan. In November, the required amount of 300,000 tons of coal was not delivered; only 235,000 tons arrived, so that for November a quantity of 65,000 tons, or 20 per cent of the requirement, has yet to be delivered.

In consequence, the Varde steel works, among others, had to close down operations for 2 days. Moreover, the Aalborg gas works often rets the vital coal only at the last minute, with the result that the numberous field kitchens dependent on the gas (feeding about 8,000 men) were in danger of having to do without.

15 January 1941: The required quantity of 300,000 tons of coal was not delivered; only 150,000 tons arrived. For the first time, coke deliveries also were behind. Instead of the required 100,000 tons, only 17,000 tons arrived.

Only 202,000 tens -- 50 per cent -- of the combined mentaly coal and coke requirement was delivered.

The reasons for this deplorable situation are: (1) the transportation situation in Germany has become more critical, and disruption of the Kaiser Wilhelm Canal has taken place, and (2) most of the steamers bearing coal for Denmark have to go to isbjerg, where a chortage of railroad cars and limited forry traffic have resulted in the piling up of 70,000-80,000 tens of coal on the piers. In order to mitigate the critical fuel situation, as of h January 19h1, 10,000 tens of coal daily are being shipped out by train from Germany to Denish stations.

A cuttack in industrial production was necessary in late December, owing to the lack of fuel.

It was difficult to sorme up enough coal for the industries like the glass industry, the Turnaces of which must not cool off, and those which absolutely must be kept producing. The Varde steel works has been shut down since 18 December 1940 because of the coal shortage. Conversion to Upper Silesian coal is recommended.

15 February 19/1: 312,000 tons of coal and coke were delivered from Upper Silesia and Westphalia, but about 60,000 tons of this have not been delivered to their destination because of the ice conditions or because it has been shipped closwhere. 50,000 tons of coal and coke destined for Sjaelland and the southern islands are still sitting in Sebjerg.

As regards the fuel supply, Fyn and Jylland are currently in pretty good shape, but the situation in Sjaelland and the southern islands grows worse daily. The only way of getting fuel to Sjaelland is to ferry it across the Store Baelt. The severe weather and ice conditions

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may mean that only Fyn and Jylland, directly connected by rail with the Westphalian mines, can be supplied in February. This would amount to only 120,000 tons, or one-third of the Danish monthly requirement.

15 Merch 1961: Only 206,000 tons of coal and toke were delivered for unloading to Denmark. Because of the maltie ice conditions, the 333,000 ton requirement carnot be met.

The stocks of coal and coke are very low. So far, no industry has had to shut down completely, but their production canacity has suffered.

60,000 tons of Danish shipping are available for coal transport from Baltic norts.

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5 March 19/3: In view of the fuel shortage in Denmark, the Dunish government has taken measures to raise post production.

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3 April 19/3: Because of the mild winter, it was possible to start peat production almost everywhere by early March, six weeks earlier than in the previous year. If the good weather continues, a record production of 5-6 million tons of peat is to be expected for 19/3.

 $\Lambda$  big deposit of high-grade lignite has been discovered in central  $\mbox{\tt Jylland.}$ 

Coal and coke deliveries in March 1943 were considerably better -- 230,601 tons of coal and 65,812 tons of coke were delivered during the proof 1-27 March 1943.

The German officials in Norway need 2,000 tons of coal for their potato-drying plant.

11 May 1943: Qaol deliveries in April were worse -- 200,738 tons of

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coal (including 37,000 tens for the Danish State Railroads) and 63,900 tens of coke arrived. The fuel situation is unsatisfactory.

21 May 1913: During the first half of May, the delivery of only 18,000 tens of coal and 27,000 tens of coke was absolutely inadequate. He can figure on only about 150,000 tens of coal and coke for the whole month of May. So far, the Danish State Railroads have received only 1,000 tens of coal. As the summer months must be utilized to build up the depleted stocks, a considerable increase in experts over the next few months is mandatory, in order that we can face the winter.

21 June 1943: The supply of coal and coke, as before, is a very serious problem. Only 116,000 tens of coal (including 26,000 tens for the Danish State Railroads) and 82,000 tens of coke arrived. During the period 1-12 June 1943, only 40,000 tens of coal and 10,000 tens of cole arrived for unloading. A total of only 150,000 tens of coal and coke (including 30,000 tens for the Danish State Railroads) are planned for June 1943.

The gas works have reserves for only one week. Copenhagen has coal for illumination purposes for only six days. All fuel ration cards and purchase permits were rendered invalid on 16 June. Unless the fuel supply of Denmark is radically changed, the occupation troops, the armament industry, transportation, and power facilities will suffer. Peat and lighte production are being pushed to the utmost, but the shortage of railroad cars and the poor condition of the means of transportation are very limiting factors in this connection.

1,910 tons of bituminus and 166 tons of anthracite were made available to the Organization Todt, among others, for the construction of fortifications and special Air Force installations; an additional 1,500 tons has been allotted for July-August.

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21 July 19'13: 102,883 tons of coal (including 13,531 tons for the Danish State Railroads) and 30,272 tons of coke were shipped to Denmark in June. 173,000 tons of coal and coke are planned for July. Despite the slight improvement in deliveries, the situation grows werse daily. The daily requirements are not being covered; furthermore, the reserves must be built up for the coming winter.

This year peat production could reach a/high, if transportation could only keep pace with production. The transportation problem is intensified not only by the poer condition of the relling stock, but also because the Danish State Indireads are inadequately supplied with fuel.

Approximately 25 per cent of the freight traffic is for the Armed Forces = 15,000 tens of coal. An unsuccessful attempt was made to utilize lignite briquettes for the production of gas, but these, although producing a goodly percentage of gas, also produced too much carbon dioride.

The high wages raid post diagers has resulted in a shortage of agricultural workers.

20 August 1943: 143,400 tons of coal (including 33,200 tons for the Darish State Railroads) and 46,200 tons of coke were shipped to Denmark in July. An additional 14,400 tons of Sudeten coal come. 155,000 tons of coal and 11,000 tons of coke are planned for August. The percentage breakdown of coal and coke for an additional promised 65,000 tons has not yet been determined. The Danes estimate that 55,000 tons of coke will have to be imported, if there is to be any sort of minimal rationing program. The coke supply in Denmark on 15 July 1943 was only half so large as that on 1 September 1942, and then the coke situation was critical.

Source: GMDS Doc No Wi/IE 1.19
A-4507538

30 October 1943: In August 1943, 172,300 tons of coal and 38,100 tons

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of coke were imported; in September, 143,300 tons of coal ( noluding 27,900 tons for the Danish State Railroads) and 53,800 tons of coke were imported. As the quantity of coal allocated the Danish State Railroads did not cover its monthly requirement, the Railroads already have had to dip into the emergency reserves.

The gas works and the power plants have a month's supply of coal on hand. As the electrical power plants gradually exhaust their peat supplies, difficulties will arise in their switchover to the poorer lightle, as they will not be able to develop the necessary steam pressure. The complete utilization of the installed capacity is thereby jeopardized.

30 Nevember 1943: In October 1943, 194,500 tons of coal and 36,200 tons of coal and 36,200 tons of coal were given to the Darlah State Railroads. Inasmuch as this quantity does not cover the Railroads' monthly requirement, it is a meldered possible that the German Reichsbahn will release 20,000 tons.

Coke deliveries are far behind.

The Danish Lignite projection amounts to about 150,000 tens per month, the equivalent of about 50,000 tens of bituminus in heat yield.

31 December 1943: the sevember 1943, 197,400 tens of coal and 27,300 tens of coke were imported. 43,760 tens of coal were given to the Danish State Railroads, the largest quantity they have received this year.

In no month since the occupation of Donmark, except for February 1942 (ice conditions), has the monthly import of coke been so low as in November 1943.



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31 March 1944: In January 1944, 152,500 tons of coal, 43,000 tons of coke, 5,500 tons of Sudeten coal, and 40,000 tons of lignite briquettes were shipped to Denmark.

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31 March 1944: In February 1944, 201,500 tons of coal were delivered, the largest quantity to arrive since June 1943. On the other hand, the delivery of 28,700 tons of coke was inadequate.

March 1944 saw the following imports:

<u>Fuel</u>	Delivered in	1
coal	216,400 tons	3
ooke	45,100 "	
briquettes	115,000 11	
Sudotan lignite	12,00 "	
	Colored Color & House State of the	
	319,100 "	

31 May 1914: In April 1944, 200,100 tons of coal (including 30,800 tons for the Danish State Railroads), 22,800 tons of coke, 2,500 tons of Sudeton coal, and 20,000 tons of Lignite briganties, a total of 262,400 tons, were delivered from Jermany.

Denish post production has been delayed by stormy, rainy weather.

## 3 May 1944: Coal Situation for 1943

Total production (Dormark)	5	.6 m	i111	on tons	of Lignite
German imports to Domeark	2,029,000 520,000		0£		
Of those quantities, the Danish State Railroads received	ldis,000	tt	II.	coal	
Small businesses, through importers, received	334,000	11	11	tt .	
Gas works and nower plants received	1,008,000	11	11	n	
Large businesses themselves imported	200,000	11	n	lt.	
Household consumption received	519,000 639,000	11	11 11	coke, a Lignite	nd dil mite tod briquettes
Power plants received a supplementary	70,000	17			lignite dust
Household consumption received a supplementary	45,000	n		lignite	
To the emergency stocks of the power plants and the gas works were allocated	67,000	11	n (	coal	

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To the emergency stocks of the Danish State 40,000 tons of coal Railroads were allocated

Moreover, the Danish government declared that it would provide 80,000 tons of peat and 20,000 tons of lightle from Danish production for the months of January through May for the occupation troops. In view of the diminishing supply of fuel from Germany, however, it stated that it could do this only once.

15 August 1944: During the period 1-31 July 1944, the following quantities of fuel were imported:

163,000 tone 66,400 "	o£ u	Upper Silesian coal Westphalian coal, including 30,000 tons for the Danish State Nailroads
34,700 "	11	coko
142,666 "	11	lignito briquottoo
25,000 "	11	Sudoton lignite

I breakdown for the years 1940-1944 is as follows (in thousands of tone):

	3 Jun 40- 31 .m <u>. 41</u>	1 Jun 41	1 dun 42- 3) .n. 43	71ay ///
Upper dilesian coal	1,235.1	010.7	1,147.2	1,1h.6
Westphalian coal	1,302.3	1, 35.6	1,011.	968.5
Upper Silesian coke	77.3	10.6	78.3	60.5
Loctphalian coke	966.7	910.h	540.1	397.6
Total coal	3,537.h	2,266.h	2,159.0	2,115.1
Total cole	1,044.0	921.0	610.4	h58.3
Total coal + coke	h,681.4	3,167.h	2,777.4	2,073.4

while the delivery of coal and coke from Germany has remained at the same level in the last six months, the Danish production of peat and lightle is unsatisfactory. Bad weather in the months of March and April ruined a good beginning, and the record production of 1943 of 6.5 million tens of peat will be only about 70 per cent attained in 1944. A shortage of railroad cars and trucks makes the situation more critical. The trucks used in peat production need tires, and the situation is growing steadily worse. Since the post bogs are often more than 4-5 kilometers from a railroad station, trucks must be used for transportation. Sufficient trucks are not available, and the wear-and-tear on tires is great.

15 September 1944: During the period 1-31 August 1944, the fellowing quantities of fuel were shipped to Dermark:

65,800	tons	0.1	Westphalian coal, including 42,400
			tons for the Danish State Railroads
14,900	11	Ü	Westphalian coke
151,000	11	. 11	Upper Silesian coal
3,900	H .	П	ii ii çokb
36,000	- 11	H .	Sudeten coal
40,000	11	The state of	lignite briquettes
3/1,000	-		

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26 Lay 1944: During the period 1940-1943, lignific production in Demantic amounted to 5.5 million tons, 2.5 million tons of which were produced in 1943 alone. At the time the curvey of deposits was made, the total reserves the estimate at 5 million tons, but further boring and investigation has lad to 1944 at 1949 of many new lignite deposits. The present estimate of reserves, therefore, is 17 million tons. If the present rate of production is kept up, those reserves will be a 1944 to 1944 and 1944 and

Feat projection wing the error 1940-1943 totalled 17.5 million tone, 5.9 million tone of thick were projected in 1943. From reposit estimates indicate a total of about 250 million tone of part in Demark. Somewar, only about one-half of this figure, 125 mm million tone, are suitable for projection. This quantity of exploitable post would last for 20 years at the present rate of projection.